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Sequence Listing was accepted.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Keisha Douglas

Timestamp: [year=2008; month=7; day=31; hr=11; min=35; sec=19; ms=457;]

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Application No: 10559406 Version No: 2.0

Input Set:

Output Set:

Started: 2008-06-25 11:36:45.948
Finished: 2008-06-25 11:36:47.026
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 78 ms
Total Warnings: 8
Total Errors: 1
No. of SeqIDs Defined: 15
Actual SeqID Count: 15

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
E 323	Invalid/missing amino acid numbering SEQID (11) POS (35)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)

Sequence Listing

<110> Universitaet Leipzig

<120> Method and Means for the Determination of Defined States or Modifications in the Mucus of the Uterus or in the Epithelium of Other Organs

<130> 401P07PCT-US

<140> 10559406

<141> 2008-06-25

<150> PCT/DE04/01210

<151> 2004-06-04

<150> DE10325639.3

<151> 2003-06-06

<150> DE10325638.5

<151> 2003-06-06

<160> 15

<210> 1

<211> 15

<212> PRT

<213> artificial sequence

<220>

<223> Epitope e-beta-9 (e-beta-hCG)

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Thr Cys Asp Asp Pro Arg Phe Gln Ala Ser Ser Ser Ser Lys Ala
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<223> Epitope beta-9 (t?hCG)

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<211> 15

<212> PRT

<213> artificial sequence

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<223> Epitope e-beta-1 (e-beta-hCG)

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Ser Arg Glu Met Leu Arg Pro Arg Cys Arg Pro Ile Asn Ala Thr
1 5 10 15

<210> 4

<211> 15

<212> PRT

<213> artificial sequence

<220>

<223> Epitope beta-1 (t-beta-hCG)

<400> 4

Ser Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro Ile Asn Ala Thr
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<211> 861

<212> DNA

<213> homo sapiens

<220>

<223> beta-hCG beta-7 cDNA-Sequenz

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actgagtctc agaggtcact tcaccgtggg ctccgcctca tccttggcgc tagaccactg 180
aggggagagg actgggggtgc tccgctgagc cactcctgtg cctccctggc cttgtctact 240
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ggatggagat gttccagggg ctgctgctgt tgctgctgct gagcatgggc gggacatggg 420
catccaagga gatgcttcgg ccacggtgcc gcccacatcaa tgccaccctg gctgtggaga 480
aggagggctg ccccggtgtgc atcacgctca acaccaccat ctgtgccggc tactgcccc 540
ccatgaccgg cgtgctgcag ggggtcctgc cggccctgcc tcaggtggtg tgcaactacc 600

gcgatgtgcg cttcgagtcc atccggctcc ctggctgccc gcgcggcgtg aaccccggtg 660
tctctacgc cgtggctctc agctgtcaat gtgcaactctg ccgccgcagc accactgact 720
gcggggggtcc caaggaccac cccttgacct gtgatgacct ccgcttcacg gcctcctctt 780
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ccccgatcct ccacacaataa a 861

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<213> homo sapiens

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<223> beta-hCG beta-6 cDNA-Sequenz

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actgagtctc agaggtcact tcaccgtggg ctccgcctca tccttggcgc tagaccactg 180

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cttgccgccc ccacaacccc gaggtatgaa gccaggtaga ccaggcaggg gacgcaccaa 360
ggatggagat gttccagggg ctgctgctgt tgctgctgct gagcatgggc gggacatggg 420
catccaagga gccacttcgg ccacgggtgcc gcccacatcaa tgccaccctg gctgtggaga 480
aggagggctg ccccggtgtgc atcacctgca acaccacat ctgtgccggc tactgcccc 540
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gcgggggtcc caaggaccac cccttgacct gtgatgaccc ccgcttccag gcctcctctt 780
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actgagcttc agaggtcact tcaccgtggg ctccgcctca tccttgggyc tagaccactg 180
aggggagagg actggggtgc tccgctgagc cactcctgtg cctccctggc cttgtctact 240
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cttgmcgccc ccacaamccc gaggtatraa gccaggtaga ccaggcaggg gacgcaccaa 360
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catccargga gmyrcttcgg ccacgggtgcc gcccacatcaa tgccaccctg gctgtggaga 480
aggagggctg ccccggtgtgc atcacctgca acaccacat ctgtgccggc tactgcccc 540
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gcgggggtcc caaggaccac cccttgacct gtgatgaccc ccgcttccag gcctcctctt 780
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ccccgatcct ccacaataa a 861

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<210> 8
<211> 165
<212> PRT
<213> homo sapiens
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Gly Thr Trp Ala Ser Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro Ile
-1 1 5 10

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Asn Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr
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 Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val
 30 35 40
 Gly Val Leu Gln Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr Arg
 45 50 55 60
 Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val
 65 70 75
 Asn Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys Gln Cys Ala Leu
 80 85 90
 Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp His Pro Leu
 95 100 105
 Thr Cys Asp Asp Pro Arg Phe Gln Asp Ser Ser Ser Ser Lys Ala Pro
 110 115 120
 Pro Pro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr
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 Pro Ile Leu Pro Gln
 145

<210> 9
 <211> 165
 <212> PRT
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 <400> 9

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 Asn Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr
 15 20 25
 Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val
 30 35 40
 Gly Val Leu Gln Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr Arg
 45 50 55 60
 Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val

65																70								75										
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				80					85					90																				
Cys	Arg	Arg	Ser	Thr	Thr	Asp	Cys	Gly	Gly	Pro	Lys	Asp	His	Pro	Leu																			
				95					100					105																				
Thr	Cys	Asp	Asp	Pro	Arg	Phe	Gln	Ala	Ser	Ser	Ser	Ser	Lys	Ala	Pro																			
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Pro	Pro	Ser	Leu	Pro	Ser	Pro	Ser	Arg	Leu	Pro	Gly	Pro	Ser	Asp	Thr																			
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Gly																Thr	Trp	Ala	Ser	Arg	Glu	Met	Leu	Arg	Pro	Arg	Cys	Arg	Pro	Ile				
				-1	1								5					10																
Asn																Ala	Thr	Leu	Ala	Val	Glu	Lys	Glu	Gly	Cys	Pro	Val	Cys	Ile	Thr				
				15				20								25																		
Val																Asn	Thr	Thr	Ile	Cys	Ala	Gly	Tyr	Cys	Pro	Thr	Met	Met	Arg	Val				
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Gly																Val	Leu	Gln	Leu	Pro	Ala	Leu	Pro	Gln	Val	Val	Cys	Asn	Tyr	Arg				
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Asp																Val	Arg	Phe	Glu	Ser	Ile	Arg	Leu	Pro	Gly	Cys	Pro	Arg	Gly	Val				
				65								70								75														
Asn																Pro	Val	Val	Ser	Tyr	Ala	Val	Ala	Leu	Ser	Cys	Gln	Cys	Ala	Leu				
				80								85								90														
Cys																Arg	Arg	Ser	Thr	Thr	Asp	Cys	Gly	Gly	Pro	Lys	Asp	His	Pro	Leu				
				95								100								105														
Thr																Cys	Asp	Asp	Pro	Arg	Phe	Gln	Ala	Ser	Ser	Ser	Ser	Lys	Ala	Pro				
				110								115								120														
Pro																Pro	Ser	Leu	Pro	Ser	Pro	Ser	Arg	Leu	Pro	Gly	Pro	Ser	Asp	Thr				
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Pro Ile Leu Pro Gln
145

<210> 11
<211> 141
<212> PRT
<213> homo sapiens
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<223> beta-LH beta-4 (prehormone)
<400> 11

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Gly Ala Trp Ala Ser Arg Glu Pro Leu Arg Pro Trp Cys His Pro Ile
-1 +1 5 10

Asn Ala Ile Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr
15 20 25

Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val
30 35 40

Leu Gln Ala Val Leu Pro Pro Leu Pro Gln Val Val Cys Thr Tyr Arg
45 50 55 60

Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val
65 70 75

Asp Pro Val Val Ser Phe Pro Val Ala Leu Ser Cys Arg Cys Ala Pro
80 85 90

Cys Arg Arg Ser Thr Ser Asp Cys Gly Gly Pro Lys Asp His Pro Leu
95 100 105

Thr Cys Asp His Pro Glu Leu Ser Gly Leu Leu Phe Leu
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<210> 12
<211> 10
<212> PRT
<213> artificial sequence
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<223> Peptide P1 (e-beta-hCG)
<400> 12

Cys Asp Asp Pro Arg Phe Gln Ala Ser Ser
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<210> 13
<211> 10
<212> PRT
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<223> Peptide K1 (t-beta-hCG)
<400> 13

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<210> 14
<211> 11
<212> PRT
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<223> Peptide P2 (e-beta-hCG)
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<210> 15
<211> 11
<212> PRT
<213> artificial sequence
<220>
<223> Peptide K2 (t-beta-hCG)
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Ser Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro
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